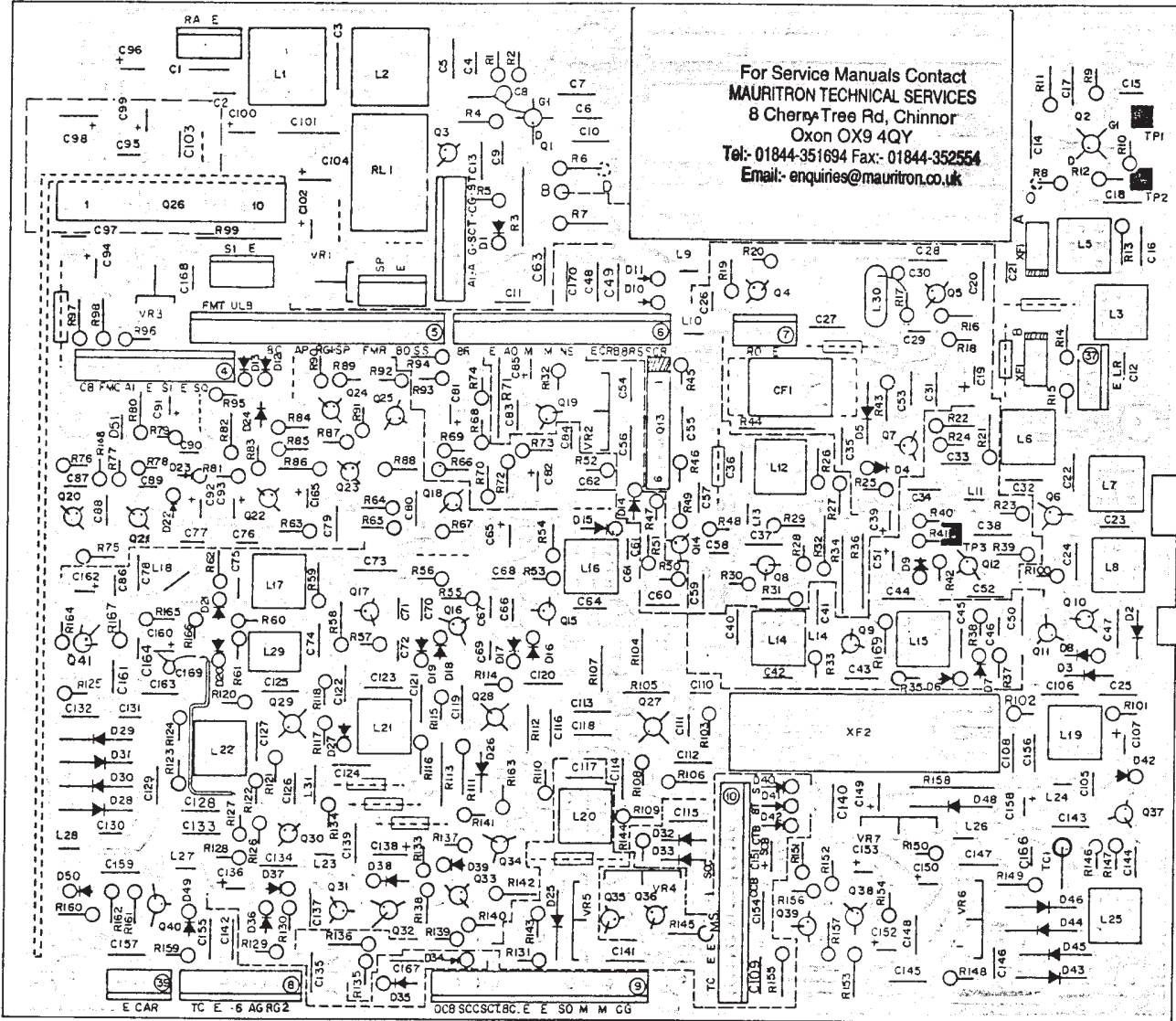


PC BOARD VIEW

▼ RX UNIT (X55-1260-11)(K)(X) (X55-1260-61)(W)(T) PARTS LIST: Page 22



Q1:3SK74(L)(K) 3SK76(W) Q2:3SK74(L) Q3:10~12,18,19,22~24,31,36,38,39:2SC1815(Y) Q4:5,8,9,14~17,30,40:2SC460(B)
 Q6:2SK125 Q7:2SC1923(O) Q13:TA7302P Q20,21:2SC1775(E) Q25,33,35:2SA1015(Y) Q26:HA1366W Q27~29:3SK74(M)
 Q32:2SK30A(GR) Q34:2SK30A(O) Q37:2SK61(GR) Q41:2SC2240(GR)
 D1,4,5,10~13,16~19,26,27,32~35,38~41,47~50:1S1555 D2,3,42:1S1587
 D6~8,14,15,20~23,28~31,36,37,43~46:1N60 D9:WZ-032 D24:1S1212 D25:1S2588 D51:D33A

2SA1015(Y)
 2SC1815(Y)
 2SC1775(E)
 2SC2240(GR)

2SC460(B)

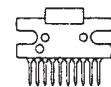
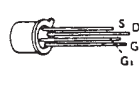
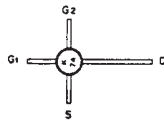
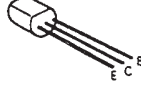
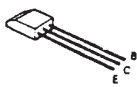
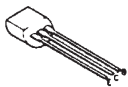
2SC1923(O)

3SK74(L)
 3SK74(M)

3SK76

HA1366W

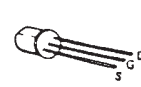
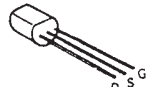
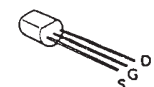
TA7302P



2SK125

2SK61(GR)

2SK30A(GR)
 2SK30A(O)



For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
 8 Cherry Tree Rd, Chinnor
 Oxon OX9 4QY
 Tel: 01844-351694 Fax: 01844-352554
 Email: enquiries@mauritron.co.uk

PARTS LIST

Note 1:

K: U.S.A. T: Britain W: Europe X: Australia

Note 2:

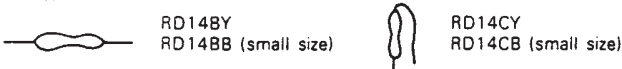
Only special type of resistors (example: cement, metal film, etc.) and capacitors (example: electrolytic, tantalum, mylar, temp. coeff. capacitors) are detailed in the PARTS LIST. For the value of all common type components, refer to the schematic diagram of the P.C. board illustration. Resistors not otherwise detailed are carbon type (1/4W or 1/8W). Order carbon resistors and capacitors according to the following example:

A carbon resistor's part number is RD14BY 2E222J.

A ceramic capacitor's number is CK45F1H103Z. CC45TH1H220J.

RESISTOR

1. Type of the carbon resistor



2. Wattage

1W → 3A 3W → 3F 5W → 3H
 2W → 3D 4W → 3G

3' = CC45 ○ ○ ...

Ceramic capacitor (type I) temperature coeff. capacitor 1' 3'

1st word (Color)	C (Black)	L (Red)	P (Orange)	R (Yellow)	S (Green)	T (Blue)	U (Violet)
ppm/°C	0	-80	-150	-220	-330	-470	-750

3 = CK45 ○

Ceramic capacitor (type II) 3

Cord	B	D	E	F
Operating temperature °C	-30 +85	-30 +85	-30 +85	-10 +70

6 = Tolerance

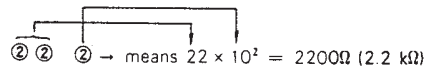
Cord	C	D	G	J	K	M	X	Z	P	No cord
(%)	±0.25	±0.5	±2	±5	±10	±20	+40 -20	+80 -20	+100 -0	More than 10 μF -10 ~ +50 Less than 4.7 μF -10 ~ +75

Less than 10 pF

Cord	B	C	D	F	G
(pF)	±0.1	±0.25	±0.5	±1	±2

Abbreviation		Abbreviation	
Cap.	Capacitor	ML	Mylar
C	Ceramic	S	Styren
E	Electrolytic	T	Tantalum
MC	Mica		

3. Resistance value



Example: 221 → 220Ω 223 → 22 kΩ 225 → 2.2 MΩ
 222 → 2.2 kΩ 224 → 220 kΩ

4. Tolerance

J = ±5% (Gold) K = ±10% (Silver)

CAPACITORS

Type I

Type II

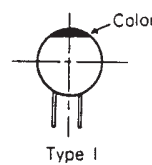
CC	45	TH	1H	220	J	CK	45	F	1H	103	Z
1'	2	3'	4	5	6	1	2	3	4	5	6

1 = Type ceramic, electrolytic, etc. 4 = Voltage rating
 2 = Shape round, square, etc. 5 = Value
 3 = Temp range 6 = Tolerance
 3' = Temp coefficient

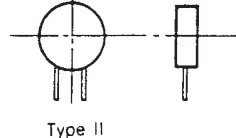
Ex CC45TH = -470 ±60 ppm/°C

2nd Word	G	H	J	K	L
ppm/°C	±30	±60	±120	±250	±500

CC45



CK45



5 = Capacitor value

Example: 010 → 1 pF
 100 → 10 pF
 101 → 100 pF
 102 → 1000 pF = 0.001 μF
 103 → 0.01 μF

GENERAL

☆: New Parts

Ⓐ: from S/N 008 x x x x ~ 012 x x x x
 Ⓑ: from S/N 101 x x x x ~

Ref. No.	Parts No.	Description	Re- marks
-	A01-0762-13	Case (upper)	☆
-	A01-0763-12	Case (lower)	☆
-	A13-0612-02	Angle ass'y (right)	☆
-	A13-0613-02	Angle ass'y (left)	☆
-	A13-0614-04	Angle (Top)	☆
-	A20-2372-15	Panel	☆
-	B01-0626-02	Panel escutcheon (K),(X)	☆
-	B01-0627-02	Panel escutcheon (W)	☆
-	B01-0628-02	Panel escutcheon (T)	☆
-	B03-0513-14	Switch mask (B) x 6	☆
-	B05-0701-04	SP grill cloth	☆
-	B05-0712-14	Grill cloth 148 x 27 mm	☆

Ref. No.	Parts No.	Description	Re- marks
-	B05-0713-04	Grill cloth 32 x 32 mm	☆
-	B07-0621-03	Side escutcheon x 2	☆
-	B10-0625-04	Front glass	☆
-	B31-0625-05	S meter	☆
-	B40-2490-04	Model name plate (T)	☆
-	B40-2509-04	Model name plate (K)	☆
-	B40-2510-04	Model name plate (W)(X)	☆
-	B46-0058-00	Warranty card (K)	☆
-	B50-2718-00	Operating manual (K)	☆
-	B50-2719-00	Operating manual (W)	☆
-	B50-2720-00	Operating manual (T)	☆
-	E06-0651-05	6P Metal socket (MIC jack)	☆

PARTS LIST

Ref. No.	Parts No.	Description	Re- marks	Ref. No.	Parts No.	Description	Re- marks
—	E07-0651-05	6P Metal consent (MIC plug)	☆	R103	RS14A83A101J	Metal film 100Ω ±5% 1W	
—	E09-0471-05	4P Plug TONE PAD (K)		VR101	R01-3409-05	Potentiometer 10 kΩ (A) SW VOL	☆
—	E12-0001-05	Phone plug		VR102	R01-4405-05	Potentiometer 50 kΩ (B) SW SQL	☆
—	E12-0401-05	STBY plug	☆	VR103.104	R19-3406-05	Potentiometer 10 kΩ (B) × 2 RIT, RF GAIN	☆
—	E23-0015-04	Lug terminal		S101	W02-0308-05	Rotary encoder	☆
—	E29-0412-05	1P Connector (male)	☆	S102	S01-2421-05	Rotary switch MODE	☆
—	E29-0413-05	1P Connector (female)	☆	S103	S01-1420-05	Rotary switch M.CH	☆
—	E30-1648-05	DC cord ass'y 4A		S104.105	S59-1405-05	Key board switch SCAN, HOLD	☆
—	F05-4022-05	Fuse (4A) × 2		S106	S40-2403-05	Push switch A/B (W)	
—	F15-0622-04	Shadow mask (meter)		S107	S40-2403-05	Push switch H/L (K)(T)(X)	
—	F15-0627-04	Shadow mask (LED)	☆	S107	S40-2406-05	Push switch TONE (W)	
—	F20-0078-05	MICA insulator (Q101)		S108	S01-1421-05	Rotary switch TX OFF SET	☆
—	F29-0014-05	Shoulder washer (Q101)		—	S50-1406-05	Tact switch (MIC)	☆
—	G02-0505-05	Knob spring RIT		—	T03-0027-15	Speaker	
—	G09-0412-04	Leaf spring	☆	—	T91-0311-05	Microphone (T)	☆
—	G10-0609-04	Cushion (upper case)	☆	—	T91-0313-05	Microphone (K)(W)(X)	☆
—	G53-0510-04	Packing × 4 upper, lower case	☆	Q101	V01-0671-16	TR 2SA671 (B)	
—	H01-2676-03	Carton (inside)(K)(W)(X)	☆	Q102	V03-2603-06	TR 2SC2603 (E)	
—	H01-2677-03	Carton (inside)(T)	☆	D101	V11-6172-26	5 digit LED SL-1502	☆
—	H10-2501-03	Styrene foam cushion		D102	V11-7272-36	LED PR5532K ON AIR	☆
—	H10-2528-12	Packing fixture	☆	D103	V11-7272-46	LED PY5532K BUSY	☆
—	H25-0049-03	Protective bag		D104	V11-6172-56	LED SLP-1448 (T)	☆
—	H25-0079-04	Protective bag (MIC)		D105	V11-6172-56	LED SLP-1448	☆
—	H25-0103-04	Protective bag (cord)		D106	V11-6176-66	LED SLP-2448 VFO A/B	☆
—	H25-0106-04	Protective bag		—	W01-0401-04	Allen key (angle)	
—	J02-0069-05	Foot × 2		—	X41-1290-11	Switch unit	☆
—	J02-0416-04	Metal foot	☆	—	X45-1140-00	Final unit (W)(T)(X)	☆
—	J25-2714-04	PC board MODE	☆	—	X45-1140-11	Final unit (K)	☆
—	J25-2715-04	PC board Memory	☆	—	X50-1620-00	PLL unit (W)(T)	☆
—	J25-2716-24	PC board SCAN	☆	—	X50-1620-11	PLL unit (K)(X)	☆
—	J25-2744-04	PC board TX OFF SET	☆	—	X50-1630-11	CAR unit	☆
—	J30-0509-04	Spacer	☆	—	X52-1140-10	Side tone unit	☆
—	J31-0514-04	Spacer collar × 2	☆	—	X53-1160-11	Control unit (K)	☆
—	J32-0739-14	Round boss × 5 PLL	☆ [Ⓐ]	—	X53-1160-61	Control unit (W)(T)	☆
—	J32-0739-24	Round boss × 5 PLL	☆ [Ⓑ]	—	X53-1160-71	Control unit (X)	☆
—	J42-0409-04	Knob bush		—	X55-1260-11	RX unit (K)(X)	☆
—	J61-0019-05	Vinyletie × 5		—	X55-1260-61	RX unit(W)(T)	☆
—	K21-0749-03	Main knob	☆	—	X56-1370-10	TX unit (K)(X)	☆
—	K21-0750-04	Knob (C) RF GAIN	☆	—	X56-1370-51	TX unit (T)	☆
—	K23-0727-04	Knob (A) × 2 MODE, MEMORY	☆	—	X56-1370-61	TX unit (W)	☆
—	K23-0728-04	Knob (B) × 2 VOL, SQL	☆	SWITCH UNIT (X41-1290-11)			
—	K23-0729-04	Knob (D) RIT	☆				
—	K23-0733-04	Knob (E) TX OFF SET	☆				
—	K27-0408-04	Push knob (A) × 5 M,MR,NB,RIT,D,STEP	☆				
—	K27-0409-04	Push knob (B) × 2 SCAN,HOLD	☆				
—	K27-0412-04	Push knob (D) VFO A/B	☆				
—	K29-0733-04	Push knob (C)	☆				
—	K23-0733-04	Knob (E) TX OFF SET	☆				
—	N09-0008-04	Screw × 4 (angle)					
—	N14-0510-04	Flange nut × 4					
—	N14-0512-05	Speed nut × 4	☆				
—	N15-1040-46	Flat washer × 4 (angle)					
—	N15-1060-46	Flat washer					
—	N16-0060-46	Spring washer × 4					
—	N33-3006-45	Round flat screw (case)					
—	N35-3006-45	Bind screw × 4 (Speaker mounting plate)					
—	N99-0304-04	Allen head bolt × 4 (angle)					
Ref. No.	Parts No.	Description	Re- marks	Ref. No.	Parts No.	Description	Re- marks
C1	CC45SL1H220J	C 22 pF ±5%		VR1.2	R12-3415-05	Semi-fixed resistor 22 kΩ	
VR3	R12-3421-05	Semi-fixed resistor 10 kΩ	☆	VR4	R12-4020-05	Semi-fixed resistor 50 kΩ (2 pole)	
VR5	R12-3421-05	Semi-fixed resistor 10 kΩ	☆	Q1~4	V03-1815-06	TR 2SC1815(Y)	

PARTS LIST

Ref. No.	Parts No.	Description	Re- marks
D1~4. 12~15	V11-0051-05	Diode 1N60	
D5~11	V11-0076-05	Diode 1S1555	
S1	S40-2409-15	Push switch M	
S2	S40-2405-05	Push switch MR	
S3.4	S40-2404-05	Push switch RIT, NB	
S5	S40-2405-05	Push switch D. STEP	
—	E23-0046-04	Square terminal	

Ref. No.	Parts No.	Description	Re- marks
—	E08-0471-05	4P Socket TONE PAD (K)	
—	E11-0405-05	Key jack	☆
—	E11-0406-05	STBY Jack	☆
—	E11-0409-05	Earphone jack	☆
—	E40-0373-05	Mini connect wafer 3P	
—	E40-0673-05	Mini connect wafer 6P	
—	F01-0744-15	Heat sink (W)(T)(X)	
—	F01-0746-05	Heat sink (K)	☆

FINAL UNIT (X45-1140-00)(W)(T)(X) (X45-1140-11)(K)

PLL UNIT (X50-1620-00)(W)(T) (X50-1620-11)(K)(X)

Schematic: Page 13

Ref. No.	Parts No.	Description	Re- marks
C1.2	CC45SL2H070D	C 7pF ±0.5pF	
C3.4	CC45SL2H101J	C 100pF ±5%	
C5	CC45SL2H330J	C 33pF ±5%	
C6	CC45SL2H390J	C 39pF ±5%	
C7	CC45SL2H100D	C 10pF ±5%	
C8	CC45CH1H010C	C 1pF ±0.25pF	
C9	CC45SL2H220J	C 22pF ±5%	
C11	CC45CH1H330J	C 33pF ±5%	
C13	CC45CH1HOR5C	C 0.5pF ±0.25pF	
C18	CS15E1C010M	T 1μF 16V	
C22	CE04W1C101Q	E 100μF 16V	
C24	CE04W1C470Q	E 47μF 16V	
C26	CE04W1C101Q	E 100μF 16V	
C27	C90-0817-05	E 1000μF 16V <small>(small)</small>	
C32	CC45SL2H120J	C 12pF ±5%	
C29	CS15E1V0R1M	T 0.1μF 35V	
VR1	R12-5024-05	Semi fixed resistor 100 kΩ (2 pole)	
VR2	R12-4016-05	Semi-fixed resistor 50 kΩ	
VR3	R12-0048-05	Semi-fixed resistor 100Ω	
Q1.2	V01-1815-06	TR 2SC1815(Y)	
Q3	V01-1015-06	TR 2SA1015(Y)	
Q4	V01-1815-06	TR 2SC1815(Y)	
Q5	V30-1131-06	Power module M57713	☆
D1	V11-5260-16	Diode M1402	
D2	V11-0414-05	Diode 1S2588	
D3.4	V11-0051-05	Diode 1N60	
D5	V11-0076-05	Diode 1S1555	
D6	V11-0270-05	Diode U05B	
L1	L34-0823-05	VHF Coil 5φ3T	
L2	L34-0438-05	Coil 0.9μH	
L3	L34-0692-05	VHF Coil 5φ4T	
L4.5	L34-0817-05	VHF Coil 5φ3T	
L6	L33-0025-05	Choke coil 1μH	
L7	L40-1001-03	Ferri-inductor 10μH	
L8	L34-0887-05	VHF Coil 5φ3T	☆
—	B42-1682-04	T. Pad badge (K)	☆
—	E04-0102-05	UHF Type receptacle	
—	E08-0203-25	2P Connector	
—	E08-0304-05	Power jack BACK UP	

Ref. No.	Parts No.	Description	Re- marks
C1	CC45PG1H080D	C 8pF ±0.5pF	
C2	CC45CH1H060D	C 6pF ±0.5pF	
C3	CC45CH1H0R5C	C 0.5pF ±0.25pF	
C4	CC45CH1H060D	C 6pF ±0.5pF	
C5	CC45CH1H150J	C 15pF ±5%	
C6	CC45CH1H030C	C 3pF ±0.25pF	
C7	CE04W1A101Q	E 100μF 10V	
C9	CC45CH1H040C	C 4pF ±0.25pF	
C10	CC45CH1H010C	C 1pF ±0.25pF	
C12	CC45CH1H220J	C 22pF ±5%	
C13	CC45CH1H020C	C 2pF ±0.25pF	
C15	CE04W1C100Q	E 10μF 16V	
C23.24	CC45CH1H040C	C 4pF ±0.25pF	
C25.26	CC45CH1H0R5C	C 0.5pF ±0.25pF	
C28	CE04W1A470Q	E 47μF 10V	
C29	CC45CH1H220J	C 22pF ±5%	
C30.31	CC45CH1H101J	C 100pF ±5%	
C33	CC45TH1H020C	C 2pF ±0.25pF	
C34	CC45TH1H560J	C 56pF ±5%	
C35	CC45PG1H470J	C 47pF ±5%	
C37.38	CS15E1VR47M	T 0.47μF 35V	
C40	C91-0455-05	C 0.01μF ±10%	
C41	CQ92M1H473K	ML 0.047μF ±10%	
C43	CS15E1C4R7M	T 4.7μF 16V	
C44	CS15E1C2R2M	T 2.2μF 16V	
C47	CE04W1E4R7Q	E 4.7μF 25V	
C48	CE04W1A101Q	E 100μF 10V	
C49	CE04W1H010Q	E 1μF 50V	
C50.51	C91-0457-05	C 0.022μF ±10%	
C52	CE04W1A101Q	E 100μF 10V	
C54	CC45SL1H101J	C 100pF ±5%	
C55	CQ92M1H223K	ML 0.022μF ±10%	
C56	CC45SL1H101J	C 100pF ±5%	
C57.58	CC45CH1H100D	C 10pF ±0.5pF	
C59	C91-0457-05	C 0.022μF ±10%	
C60	CE04W1C100Q	E 10μF 16V	
C62	CE04W1A101Q	E 100μF 10V	
C70	CC45CH1H100D	C 10pF ±0.5pF	
C71	CC45TH1H020C	C 2pF ±0.25pF	
C72	CC45TH1H010C	C 1pF ±0.25pF	
C74	CQ92M1H223K	ML 0.022μF ±10%	
VR1	R12-5014-05	Semi-fixed resistor 100 kΩ	
VR2	R12-3025-05	Semi-fixed resistor 10 kΩ	
TC1	C05-0062-05	Ceramic Trimmer 6pF	

PARTS LIST

Ref. No.	Parts No.	Description	Re- marks
Q1	V09-1001-16	FET 2SK19(GR)TR10-5	
Q2	V03-1923-06	TR 2SC1923(O)	
Q3	V09-1002-56	FET 3SK74(L)	
Q4	V03-1775-06	TR 2SC1775(E)	
Q5	V09-1002-56	FET 3SK74(L)	
Q6	V03-0079-05	TR 2SC460(B)	
Q7	V09-0060-05	FET 2SK30A(GR)	
Q8.9	V03-2240-06	TR 2SC2240(GR)	
Q10~12	V03-0079-05	TR 2SC460(B)	
Q13	V03-1923-06	TR 2SC1923(O)	
Q14.15	V03-1815-06	TR 2SC1815(Y)	
Q16	V30-1132-06	IC TC5081P	☆
Q17	V30-1147-06	IC TC5082P-GL	☆
Q18	V30-1036-16	IC TC9122P	
D1	V11-1260-36	Vari-cap Diode 1SV50S	
D2.3	V11-0414-05	Diode 1S2588	
D4	V11-0374-05	Diode 1S116	
D5	V11-1260-36	Vari cap Diode 1SV50S	
D6	V11-0317-05	Vari-cap Diode 1S2208	
D7	V11-0076-05	Diode 1S1555	
L1	L40-3391-03	Ferri-inductor 3.3μH	
L2	L32-0624-05	Oscillating coil VCO	☆
L3	L40-3391-03	Ferri-inductor 3.3μH	
L4	L34-0820-05	Tuning coil	
L5	L34-0683-05	Tuning coil	
L6.7	L34-0901-05	Tuning coil	☆
L8	L33-0631-05	Choke coil 4.7μH	☆
L9	L77-0855-05	Crystal 14.2005 MHz	☆
L10.11	L40-1021-03	Ferri-inductor 1mH	
L12	L40-4711-03	Ferri-inductor 470μH	
L13	L40-1021-03	Ferri-inductor 1mH	
L14	L40-1501-03	Ferri-inductor 15μH	
L15.16	L40-1021-03	Ferri-inductor 1mH	
L17	L40-4711-03	Ferri-inductor 470μH	
-	E40-0273-05	Mini connect wafer 2P	
-	E40-0473-05	Mini connect wafer 4P	
-	E40-0573-05	Mini connect wafer 5P	
-	E40-0673-05	Mini connect wafer 6P (K)	
-	E40-0773-05	Mini connect wafer 7P	

Ref. No.	Parts No.	Description	Re- marks
L5.6	L40-1511-03	Ferri-inductor 150μH	
L7	L77-0856-05	Crystal 10.6943 MHz	☆
X1	L77-0857-05	Crystal (LSB) 10.6965 MHz	☆
-	E23-0046-04	Square terminal	

SIDE TONE UNIT (X52-1140-10)

Ref. No.	Parts No.	Description	Re- marks
C1	CS15E1V0R1M	T 0.1μF 35V	
C2	CQ92M1H123K	ML 0.012μF ±10%	
C3	CC45SL1H101J	C 100pF ±5%	
C4.5	CQ92M1H103K	ML 0.01μF ±10%	
C6	CS15E1V0R1M	T 0.1μF 35V	
C7	CS15E1A100M	T 10μF 10V	
C8	CQ92M1H123K	ML 0.012μF ±10%	
C9	CE04W1A470Q	E 47μF 10V	
Q1	V03-1775-06	TR 2SC1775(E)	
D1	V11-0076-05	Diode 1S1555	
-	E40-0574-05	Mini connect wafer 5P	

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CAR UNIT (X50-1630-11)

Ref. No.	Parts No.	Description	Re- marks
C5	CC45SL1H330J	C 33pF ±5%	
C6.7	CC45SL1H220J	C 22pF ±5%	
C9.10	CC45SL1H221J	C 220pF ±5%	
C12	CC45CH1H030C	C 3pF ±0.25pF	
C13	CC45SL1H470J	C 47pF ±5%	
TC1~3	C05-0067-05	Ceramic trimmer 25pF	
Q1.2	V03-0079-05	TR 2SC460(B)	
D1~5	V11-0076-05	Diode 1S1555	
L1~3	L40-1021-03	Ferri-inductor 1mH	
L4	L30-0281-05	IFT	

PARTS LIST

CONTROL UNIT (X53-1160-11)(K)
(X53-1160-61)(T)
(X53-1160-71)(X)

RX UNIT (X55-1260-11)(K)(X)
(X55-1260-61)(W)(T)

Schematic: Page 15

Ref. No.	Parts No.	Description	Re- marks
C1	CQ92M1H223K	ML 0.022 μ F	
C3	CE04W1A101Q	E 100 μ F 10V	
C4.5	CE04W1A471Q	E 470 μ F 10V	
C6	CE04W1A470Q	E 47 μ F 10V	
C9	CE04W1C470Q	E 47 μ F 16V	
C10	CE04W1C220Q	E 22 μ F 16V	
C11.12	CE04W1H010Q	E 1 μ F 50V	
C14	CE04W1A101Q	E 100 μ F 10V	
C16	C90-0811-05	E 330 μ F 16V	
C17.18	C91-0460-05	Laminated cap. 0.068 μ F	☆
C19.20	C91-0460-05	Laminated cap. 0.1 μ F	☆
R1	R90-0526-05	Resistor 27k Ω × 4	☆
R36	R90-0526-05	Resistor 27k Ω × 4	☆
Q1.2	V03-1815-06	TR 2SC1815(Y)	
Q3.4	V01-1015-06	TR 2SA1015(Y)	
Q5~13	V03-1815-06	TR 2SC1815(Y)	
Q14	V03-0336-05	TR 2SC496(Y)	
Q15	V30-1136-06	Micro computer μ PD650C-021	☆
Q16	V30-1008-66	IC MN1201A	
Q17	V30-1067-06	IC NJM78L06K	
Q18	V30-1054-06	IC TC5022BP	
Q19.20	V30-1815-06	TR 2SC1815(Y)	
D1	V11-0051-05	Diode 1N60	
D2~12	V11-0076-05	Diode 1S1555	
D13.14	V11-0051-05	Diode 1N60	
D15.16	V11-0076-05	Diode 1S1555	
D17	V11-0051-05	Diode 1N60	
D19	V11-0076-05	Diode 1S1555	
D20	V11-1162-16	Diode MA522(Q)	
D21	V11-4176-76	Zener diode XZ-057	
D22~30	V11-0051-05	Diode 1N60	
D31	V11-0051-05	Diode 1N60 (K)(X)	
D32	V11-0051-05	Diode	
L1	L30-0503-05	IFT	
-	E40-0373-05	Mini connect wafer 3P	
-	E40-0473-05	Mini connect wafer 4P	
-	E40-0573-05	Mini connect wafer 5P	
-	E40-0773-05	Mini connect wafer 7P	
-	E40-0873-05	Mini connect wafer 8P	
-	E40-1173-05	Mini connect wafer 11P	
-	G11-0605-04	Cushion (Transducer)	☆
-	J29-0403-04	Transducer plate	☆
-	T95-0051-05	Transducer	

Ref. No.	Parts No.	Description	Re- marks
C1	CC45CH1H330J	C 33pF \pm 5%	
C2	CC45RH1H120J	C 12pF \pm 5%	
C3	CC45CH1H030C	C 3pF \pm 0.25pF	
C4	CC45RH1H100D	C 10pF \pm 0.5pF	
C5	CC45CH1H220J	C 22pF \pm 5%	
C7	C91-0456-05	C 0.047 μ F \pm 10%	
C12	CC45CH1H330J	C 33pF \pm 5%	
C14	CC45CH1H150J	C 15pF \pm 5%	
C15	CC45CH1H0R5C	C 0.5pF \pm 0.25pF	
C16	CC45CH1H020C	C 2pF \pm 0.25pF	
C19	CE04W1A470Q	E 47 μ F 10V	
C21	CC45CH1H050C	C 5pF \pm 0.25pF	
C22	CC45CH1H470J	C 47pF \pm 5%	
C23	CC45CH1H030C	C 3pF \pm 0.25pF	
C24	C91-0456-05	C 0.047 μ F \pm 10%	
C25	CC45CH1H470J	C 470pF \pm 5%	
C27	CC45CH1H220J	C 22pF \pm 5%	
C28	CC45SL1H451J	C 450pF \pm 5%	
C31	CC45CH1H180J	C 18pF \pm 5%	
C34	CQ92M1H393K	ML 0.039 μ F \pm 10%	
C35	CQ92M1H223K	ML 0.022 μ F \pm 10%	
C36	CQ92M1H103K	ML 0.01 μ F \pm 10%	
C37	CC45SL1H101J	C 100pF \pm 5%	
C39	CE04W1C100Q	E 10 μ F 16V	
C40	CQ92M1H393K	ML 0.039 μ F \pm 10%	
C41	CQ92M1H223K	ML 0.022 μ F \pm 10%	
C43	CQ92M1H393K	ML 0.039 μ F \pm 10%	
C44	CQ92M1H223K	ML 0.022 μ F \pm 10%	
C45	CQ92M1H222K	ML 0.0022 μ F \pm 10%	
C51	CE04W1H010Q	E 1 μ F 50V	
C53	CQ92M1H393K	ML 0.039 μ F \pm 10%	
C54.55	CQ92M1H473K	ML 0.047 μ F \pm 10%	
C56	CQ92M1H393K	ML 0.039 μ F \pm 10%	
C57	CQ92M1H103K	ML 0.01 μ F \pm 10%	
C59.60	CQ92M1H223K	ML 0.022 μ F \pm 10%	
C64	CQ92M1H223K	ML 0.022 μ F \pm 10%	
C65	CE04W1A101Q	E 100 μ F 10V	
C68	CC45SL1H470J	C 47pF \pm 5%	
C69	CQ92M1H222K	ML 0.0022 μ F \pm 10%	
C72	CQ92M1H222K	ML 0.0022 μ F \pm 10%	
C73	CQ92M1H473K	ML 0.047 μ F \pm 10%	
C74	CQ92M1H223K	ML 0.022 μ F \pm 10%	
C75	CQ92M1H102K	ML 0.001 μ F \pm 10%	
C76	CQ92M1H332K	ML 0.0033 μ F \pm 10%	
C77	CQ92M1H222K	ML 0.0022 μ F \pm 10%	
C78	CQ92M1H393K	ML 0.039 μ F \pm 10%	
C79	CQ92M1H223K	ML 0.022 μ F \pm 10%	
C80	CQ92M1H473K	ML 0.047 μ F \pm 10%	
C81.82	CE04W1C220Q	E 22 μ F 16V	
C83	CQ92M1H103K	ML 0.01 μ F \pm 10%	
C84	CQ92M1H332K	ML 0.0033 μ F \pm 10%	
C85	CS15E1V0R1M	T 0.1 μ F 35V	
C86	CQ92M1H222K	ML 0.0022 μ F \pm 10%	
C87	CC45SL1H220J	C 22pF \pm 5%	
C88	CQ92M1H103K	ML 0.01 μ F \pm 10%	
C89	CC45SL1H390J	C 39pF \pm 5%	
C90	CQ92M1H222K	ML 0.0022 μ F \pm 10%	
C91	CE04W1A470Q	E 47 μ F 10V	
C92.93	CS15E1A3R3M	T 3.3 μ F 10V	
C94	CE04W1H010Q	E 1 μ F 50V	
C95	CQ92M1H332K	ML 0.0033 μ F \pm 10%	
C96	CE04W1A101Q	E 100 μ F 10V	
C98	CE04W1C471Q	E 470 μ F 16V	
C99.100	CE04W1A470Q	E 47 μ F 10V	

PARTS LIST

Ref. No.	Parts No.	Description	Re- marks	Ref. No.	Parts No.	Description	Re- marks
C101	CQ92M1H104K	ML 0.1 μ F \pm 10%		Q3	V03-1815-06	TR 2SC1815(Y)	
C102	CE04W1H010Q	E 1 μ F 50V		Q4.5	V03-0079-05	TR 2SC460(B)	
C103	CC45SL1H101J	C 100pF \pm 5%		Q6	V09-0136-10	FET 2SK125	
C104	CE04W1A101Q	E 100 μ F 10V		Q7	V03-1923-06	TR 2SC1923(O)	
C105	CC45CH1H050C	C 5pF \pm 0.25pF		Q8.9	V03-0079-05	TR 2SC460(B)	
C106	C91-0455-05	C 0.01 μ F \pm 10%		Q10~12	V03-1815-06	TR 2SC1815(Y)	
C107	CE04W1C100Q	E 10 μ F 16V		Q13	V30-1134-06	IC TA7302P	☆
C108	C91-0455-05	C 0.01 μ F \pm 10%		Q14~17	V03-0079-05	TR 2SC460(B)	
C109	CC45SL1H101J	C 100pF \pm 5%		Q18,19,22	V03-1815-06	TR 2SC1815(Y)	
C110	CC45CH1H100D	C 10pF \pm 0.5pF		~24			
C112~114	C91-0457-05	C 0.022 μ F \pm 10%		Q20,21	V03-1175-06	TR 2SC1775(E)	
C115,116	C91-0455-05	C 0.01 μ F \pm 10%		Q25	V01-1015-06	TR 2SA1015(Y)	
C117,119	C91-0457-05	C 0.022 μ F \pm 10%		Q26	V30-1045-06	IC HA1366W	
C118	CC45CH1H470J	C 47pF \pm 5%		Q27~29	V09-1013-06	FET 2SK74(M)	
C120~122	C91-0457-05	C 0.022 μ F \pm 10%		Q30	V03-0079-05	TR 2SC460(B)	
C123	CC45CH1H100D	C 10pF \pm 0.5pF		Q31	V03-1815-06	TR 2SC1815(Y)	
C124,125	C91-0457-05	C 0.022 μ F \pm 10%		Q32	V09-0060-05	FET 2SK30A(GR)	
C126	CC45CH1H100D	C 10pF \pm 0.5pF		Q33	V01-1015-06	TR 2SA1015(Y)	
C127	C91-0457-05	C 0.022 μ F \pm 10%		Q34	V09-0056-05	FET 2SK30A(O)	
C128,129	C91-0455-05	C 0.01 μ F \pm 10%		Q35	V01-1015-06	TR 2SA1015(Y)	
C130	CC45CH1H180J	C 18pF \pm 5%		Q36	V03-1815-06	TR 2SC1815(Y)	
C131	CC45CH1H100D	C 10pF \pm 0.5pF		Q37	V09-1014-06	FET 2SK61(GR)	☆
C132,133	C91-0455-05	C 0.01 μ F \pm 10%		Q38,39	V03-1815-06	TR 2SC1815(Y)	
C134	CC45CH1H470J	C 47pF \pm 5%		Q40	V03-0079-05	TR 2SC460(B)	
C135	C91-0455-05	C 0.01 μ F \pm 10%		Q41	V03-2240-06	TR 2SC2240(GR)	
C136	CE04W1C100Q	E 10 μ F 16V					
C137	CC45SL1H221J	C 220pF \pm 5%		D1	V11-0076-05	Diode 1S1555	
C138	CE04W1H010Q	E 1 μ F 50V		D2,3	V11-0370-05	Diode 1S1587	
C143	C91-0457-05	C 0.022 μ F \pm 10%		D4,5	V11-0076-05	Diode 1S1555	
C144	CC45CH1H040C	C 4pF \pm 0.25pF		D6~8	V11-0051-05	Diode 1N60	
C145	C91-0455-05	C 0.01 μ F \pm 10%		D9	V11-4172-26	Zener diode WZ-032	
C146	CC45CH1H330J	C 33pF \pm 5%		D10~13	V11-0076-05	Diode 1S1555	
C147,148	C91-0455-05	C 0.01 μ F \pm 10%		D14,15	V11-0051-05	Diode 1N60	
C149	CE04W1H010Q	E 1 μ F 50V		D16~19	V11-0076-05	Diode 1S1555	
C150	CE04W1H3R3Q	E 3.3 μ F 50V		D20~23	V11-0051-05	Diode 1N60	
C151	CE04W1A470Q	E 47 μ F 10V		D24	V11-1262-06	Varistor 1S1212	
C152	CE04W1E4R7Q	E 4.7 μ F 25V		D25	V11-0414-05	Diode 1S2588	
C153	CE04W1H010Q	E 1 μ F 50V		D26,27	V11-0076-05	Diode 1S1555	
C154	CQ92M1H473K	ML 0.047 μ F \pm 10%		D28~31	V11-0051-05	Diode 1N60	
C155	C91-0455-05	C 0.01 μ F \pm 10%		D32~35	V11-0076-05	Diode 1S1555	
C156,157	C91-0457-05	C 0.022 μ F \pm 10%		D36,37	V11-0051-05	Diode 1N60	
C158	CE04W1E4R7Q	E 4.7 μ F 25V		D38~41	V11-0076-05	Diode 1S1555	
C159	CC45SL1H221J	C 220pF \pm 5%		D42	V11-0370-05	Diode 1S1587	
C160	CE04W1C100Q	E 10 μ F 16V		D43~46	V11-0051-05	Diode 1N60	
C161	CQ92M1H473K	ML 0.047 μ F \pm 10%		D47~50	V11-0076-05	Diode 1S1555	
C162	CE04W1H010Q	E 1 μ F 50V		D51	V11-3161-86	Thermistor D33A	
C163	C91-0455-05	C 0.01 μ F \pm 10%					
C164	CQ92M1H682K	ML 0.0068 μ F \pm 10%		L1,2	L31-0267-05	Tuning coil	
C165	CS15E1C4R7M	T 4.7 μ F 16V		L3	L34-0683-05	Tuning coil	
C166	CC45CH1H120J	C 12pF \pm 5%		L4	L79-0457-05	Helical block (W) (T)	☆
					L79-0460-05	Helical block (K) (X)	☆
TC1	C05-0031-05	Ceramic trimmer 10pF		L5~8	L30-0281-05	IFT	
VR1	R12-3415-05	Semi-fixed resistor 22 k Ω		L9	L40-1511-03	Ferri-inductor 150 μ H	
VR2	R12-4016-05	Semi-fixed resistor 50 k Ω		L10	L40-4711-03	Ferri-inductor 470 μ H	
VR3	R12-3416-05	Semi-fixed resistor 47 k Ω		L11	L40-4701-03	Ferri-inductor 47 μ H	
VR4	R12-1016-05	Semi-fixed resistor 3 k Ω		L12	L30-0503-05	IFT	
VR5	R12-7013-05	Semi-fixed resistor 500 k Ω		L13	L40-1011-03	Ferri-inductor 100 μ H	
VR6	R12-0048-05	Semi-fixed resistor 100 Ω		L14	L30-0503-05	IFT	
VR7	R12-4016-05	Semi-fixed resistor 50 k Ω		L15,16	L30-0504-05	IFT	
				L17	L30-0503-05	IFT	
Q1	V09-1002-56	FET 3SK74(L) (K)(X)		L18	L40-6825-04	Ferri-inductor 6.8mH	
	V09-1012-06	FET 3SK76 (W)(T)		L19	L30-0507-05	IFT	☆
Q2	V09-1002-56	FET 3SK74(L)		L20~22	L30-0005-05	IFT	
				L23	L40-1021-03	Ferri-inductor 1mH	

PARTS LIST

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Ref. No.	Parts No.	Description	Re- marks
L24	L40-1511-03	Ferri-inductor 150μH	
L25	L30-0005-05	IFT	
L26	L40-1021-03	Ferri-inductor 1mH	
L27	L40-4711-03	Ferri-inductor 470μH	
L28	L40-1511-03	Ferri-inductor 150μH	
L29	L79-0446-05	Ceramic disc CFY455S	
L30	L77-0858-05	Crystal 10.24 MHz	☆
L31	L40-1021-03	Ferri-inductor 1mH	
CF1	L72-0315-05	Ceramic filter CFW455F	
XF1(A,B)	L71-0216-05	MCF 10.695 MHz	☆
XF2	L71-0215-05	Crystal filter 10.695 MHz SS8	☆
RL1	S51-1407-05	Relay G2E9V	☆
-	E40-0273-05	Mini connect wafer 2P	
-	E40-0573-05	Mini connect wafer 5P	
-	E40-0773-05	Mini connect wafer 7P	
-	E40-1073-05	Mini connect wafer 10P	
-	E40-1273-05	Mini connect wafer 12P	
-	J31-0502-04	PC Board collar	
-	J42-0404-05	PC Board bush	

TX UNIT (X56-1370-10)(K)(X)
(X56-1370-51)(T)
(X56-1370-61)(W)

Ref. No.	Parts No.	Description	Re- marks
C1.2	CC45SL1H101J	C 100pF ±5%	
C3	CS15E1C010M	T 1μF 16V	
C4	CE04W1E4R7Q	E 4.7μF 25V	
C5	CQ92M1H682K	ML 0.0068μF ±10%	
C6	CE04W1A470Q	E 47μF 10V	
C7	CE04W1H010Q	E 1μF 50V	
C8	CQ92M1H472K	ML 0.0047μF ±10%	
C10	CE04W1A470Q	E 47μF 10V	
C11	CE04W1E4R7Q	E 4.7μF 25V	
C12	CE04W1A470Q	E 47μF 10V	
C13	CE04W1C220Q	E 22μF 16V	
C14	CE04W1H010Q	E 1μF 50V	
C15	CQ92M1H103K	ML 0.01μF ±10%	
C16	CQ92M1H393K	ML 0.039μF ±10%	
C18	CC45TH1H100D	C 10pF ±0.5pF	
C19	CC45UJ1H020C	C 2pF ±0.25pF	
C20.21	CC45SL1H221J	C 220pF ±5%	
C23	CC45CH1H100D	C 10pF ±0.5pF	
C26	CC45CH1H330J	C 33pF ±5%	
C27.28	CC45CH1H220J	C 22pF ±5%	
C32	CC45TH1H020C	C 2pF ±0.25pF	
C33.34	CC45TH1H080D	C 8pF ±0.5pF	
C35	CC45CH1H070D	C 7pF 0.5pF(W)(T)	
C35	CC45CH1H080D	C 8pF 0.5pF(K)	
C36	CC45TH1H030C	C 3pF ±0.25pF(K)	
C36	CC45TH1H040C	C 4pF ±0.25pF(W)(T)	
C37	CC45TH1H060D	C 6pF ±0.5pF(K)	
C37	CC45TH1H050C	C 5pF ±0.25pF(W)(T)	
C38	CC45CH1H0R5C	C 0.5pF ±0.25pF	
C39	CC45TH1H040C	C 4pF ±0.25pF(K)	
C39	CC45TH1H050C	C 5pF ±0.25pF(W)(T)	
C40	CC45TH1H050C	C 5pF ±0.25pF	

Ref. No.	Parts No.	Description	Re- marks
C41	CC45CH1H0R5C	C 0.5pF ±0.25pF	
C42.43	CC45TH1H050C	C 5pF ±0.25pF	
C44	CC45CH1H220J	C 22pF ±5%	
C50	C90-0804-05	C 0.001μF	
C51	CE04W1E4R7Q	E 4.7μF 25V	
C54	CE04W1E4R7Q	E 4.7μF 25V	
C55	CC45CH1H100D	C 10pF ±0.5pF	
C56	CC45CH1H010C	C 1pF ±0.25pF	
C58	CE04W1HR47Q	E 0.47μF 50V	
C62.63	CE04W1C100Q	E 10μF 16V	
C65	C90-0820-05	E 470μF 16V <small>(small)</small>	
C67	CE04W1C100Q	E 10μF 16V	
C70	CE04W1C220Q	E 22μF 16V	
C73	CE04W1A470Q	E 47μF 10V	
C75	CE04W1A470Q	E 47μF 10V	
C76	CE04W1C470Q	E 47μF 16V	
C77	CE04W1C101Q	E 100μF 16V	
C78	CQ92M1H223K	ML 0.022μF ±10%	
C79	CE04W1C101Q	E 100μF 16V	
C80	CQ92M1H473K	ML 0.047μF ±10%	
C86	CS15E1A3R3M	T 3.3μF 10V	
C87	CE04W1C470Q	E 47μF 16V	
C88	CE04W1C330Q	E 33μF 16V	
C89	CQ92M1H472K	ML 0.0047μF ±10%	
C91.92		not used (K)	
C93	CE04W1C220Q	E 22μF 16V	
C94~96	C91-0433-05	Laminated cap. 0.0039μF ±5% 50V	
C94~96		not used (K)	
C97	CE04W1C220Q	E 22μF 16V	
C98.99	CE04W1H010Q	E 1μF 50V	
C100.101	CS15E1A150M	T 15μF 10V	
C102	CE04W1C220Q	E 22μF 16V	
C93.97~99		Not used (K)	
C100.101		Not used (K)(W)	
R46	RC05GF2H2R2J	Solid 2Ω 5%, 1/2W	
R52	RC05GF2H100J	Solid 10Ω ±5%, 1/2W	
R62	R92-0616-05	Metal film 10kΩ ±1%, 1/4W	
R62		Not used (K)	
R63	RN14BK2E4703F	Metal film 470kΩ ±1%, 1/4W	
R63		Not used (K)	
R64	R92-0616-05	Metal film 10kΩ ±1%, 1/4W	
R64		Not used (K)	
R65	R92-0617-05	Metal film 7.5kΩ ±1%, 1/4W	
R65		Not used (K)	
TC1	C05-0062-05	Ceramic trimmer 6pF	
TC2.3	C05-0030-15	Ceramic trimmer 20pF	
VR1	R12-4016-05	Semi-fixed resistor 50kΩ	
VR2	R12-2015-05	Semi-fixed resistor 5kΩ	
VR3	R12-0042-05	Semi-fixed resistor 500Ω	
VR4	R12-1016-05	Semi-fixed resistor 3kΩ	
VR5	R12-4016-05	Semi-fixed resistor 50kΩ	
VR6.7	R12-1050-05	Semi-fixed resistor 1kΩ	
VR8	R12-2405-05	Semi-fixed resistor 5kΩ	
VR9	R12-4403-05	Semi-fixed resistor 50kΩ	
Q1	V03-2240-06	TR 2SC2240 (GR)	
Q2	V30-0039-05	IC TA7061AP	
Q3.4	V03-0079-05	TR 2SC460(B)	
Q5.6	V09-1014-06	FET 2SK61 (GR)	
Q7	V09-1002-56	FET 3SK74(L)	
Q8	V03-2538-16	TR 2SC2538-22-A	
Q9	V03-2603-06	TR 2SC2603(E)	

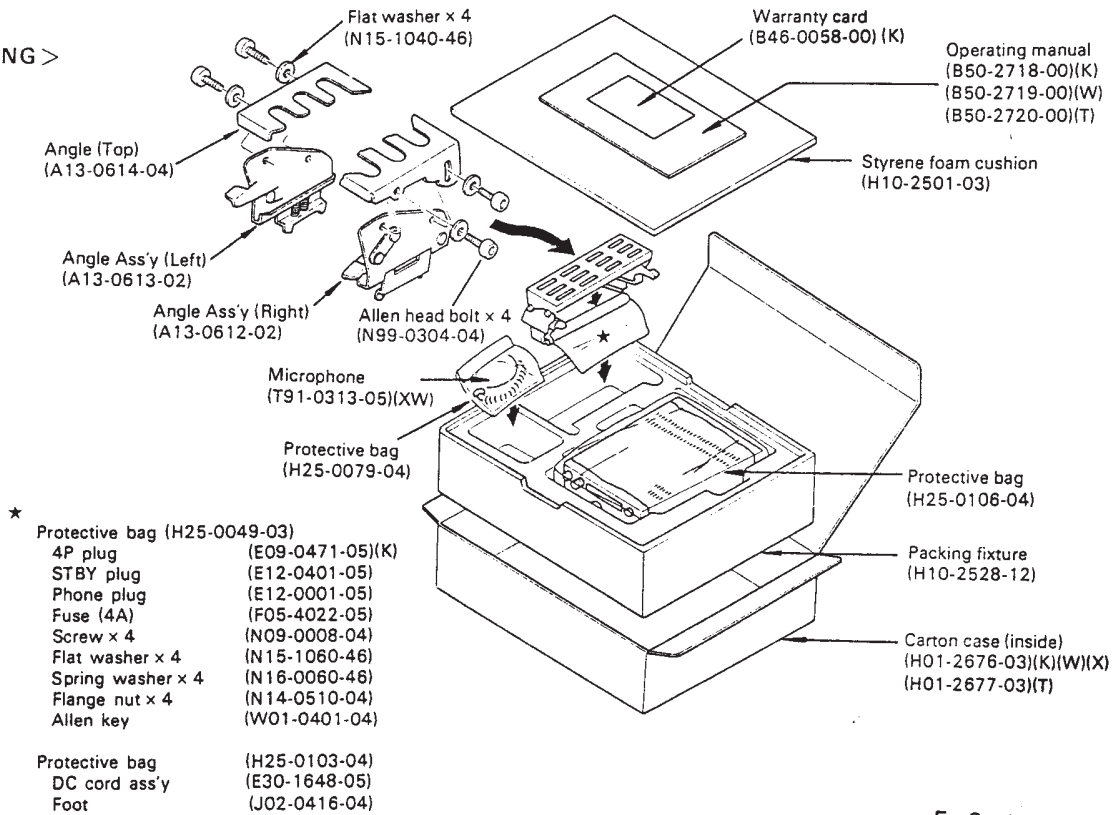
PARTS LIST

Ref. No.	Parts No.	Description	Re- marks
Q10.11	V01-1015-06	TR 2SA1015(Y)	
Q12	V01-0671-16	TR 2SA671(B)	
Q13	V01-1015-06	TR 2SA1015(Y)	
Q14	V03-2603-06	TR 2SC2603(E)	
Q15	V03-0336-05	TR 2SC496(Y)	
Q16	V30-1135-06	IC FS7808C	
Q17.18	V03-2603-06	TR 2SC2603(E)	
Q19	V01-1015-06	TR 2SA1015(Y)	
Q20	V03-2603-06	TR 2SC2603(E)	
Q21.22	V03-1815-06	TR 2SC1815(Y)	
Q23.24	V03-0093-05	TR 2SC458(B)	
D1	V11-0317-05	Vari-cap diode 1S2208	
D2.3	V11-0414-05	Diode 1S2588	
D4	V11-0317-05	Vari-cap diode 1S2208	
D5~7	V11-7761-86	Vari-cap diode ITT410	
D8	V11-0076-05	Vari-cap diode 1S1555	
D9.10	V11-0051-05	Diode 1N60	
D11	V11-0076-05	Diode 1S1555	
D12	V11-1262-46	Diode VD1223	
D13	V11-0243-05	Zener diode WZ-061	
D14	V11-4167-06	Zener diode XZ-090	
D15.16	V11-0076-05	Diode 1S1555	
D17	V11-4101-20	Zener diode XZ-060	
D18	V11-4161-96	Zener diode XZ-070	
D19.20	V11-0076-05	Diode 1S1555	
D21	V11-4101-20	Zener diode XZ-060	
D22	V11-0076-05	Diode 1S1555 (W)(T)	
D22		not used (K)	
D23	V11-0076-05	Diode 1S1555 (T)	
D23		not used (K)(W)	
L1	L40-1545-06	Ferri-inductor 150mH	
L2	L77-0859-05	Crystal 10.710 MHz	
L3	L33-0615-05	Choke 15 μ H	
L4	L30-0005-05	Tuning coil	
L5	L31-0313-05	Tuning coil	
L6	L40-1001-03	Ferri-inductor 10 μ H	
L7	L40-1511-03	Ferri-inductor 150 μ H	
L8	L34-0886-05	Tuning coil MIX	
L9	L31-0180-05	Tuning coil	
L10	L31-0266-05	Tuning coil	
L11	L31-0267-05	Tuning coil	
L12	L34-0885-15	VHF Coil 5 ϕ 5T	☆
L13	L34-0452-05	VHF Coil 3 ϕ 6T	
L14	L34-0691-05	VHF Coil 5 ϕ 5T	
L15	L40-6825-04	Ferri-inductor 6.8mH	
L16	L33-0026-05	Choke 1 μ H	
L17	L15-0016-05	Choke trans.	
L18	L40-1511-03	Ferri-inductor 150 μ H	
L19.20	L40-1011-03	Ferri-inductor 100 μ H	
-	E40-0273-05	Mini connect wafer 2P	
-	E40-0373-05	Mini connect wafer 3P	
-	E40-0773-05	Mini connect wafer 7P	
-	E40-0873-05	Mini connect wafer 8P	
-	E40-1173-05	Mini connect wafer 11P	
-	E40-1273-05	Mini connect wafer 12P	

For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
 8 Cherry Tree Rd, Chinnor
 Oxon OX9 4QY
 Tel: 01844-351694 Fax: 01844-352554
 Email: enquiries@mauritron.co.uk

PACKING/DISASSEMBLY

< PACKING >



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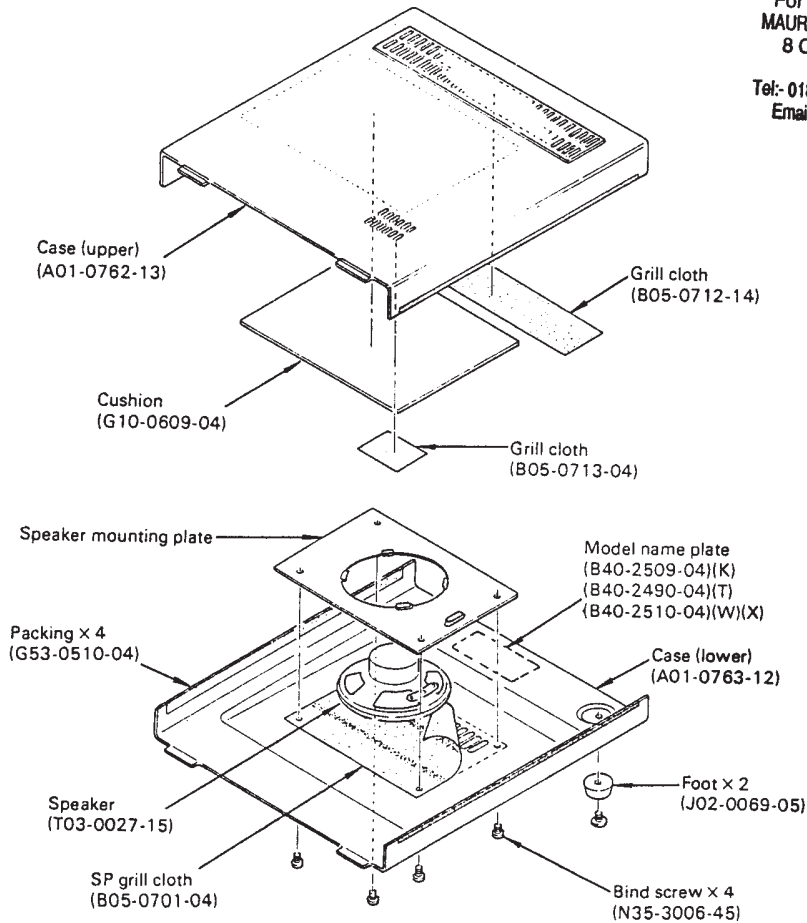


Fig. 12 Case disassembly

DISASSEMBLY

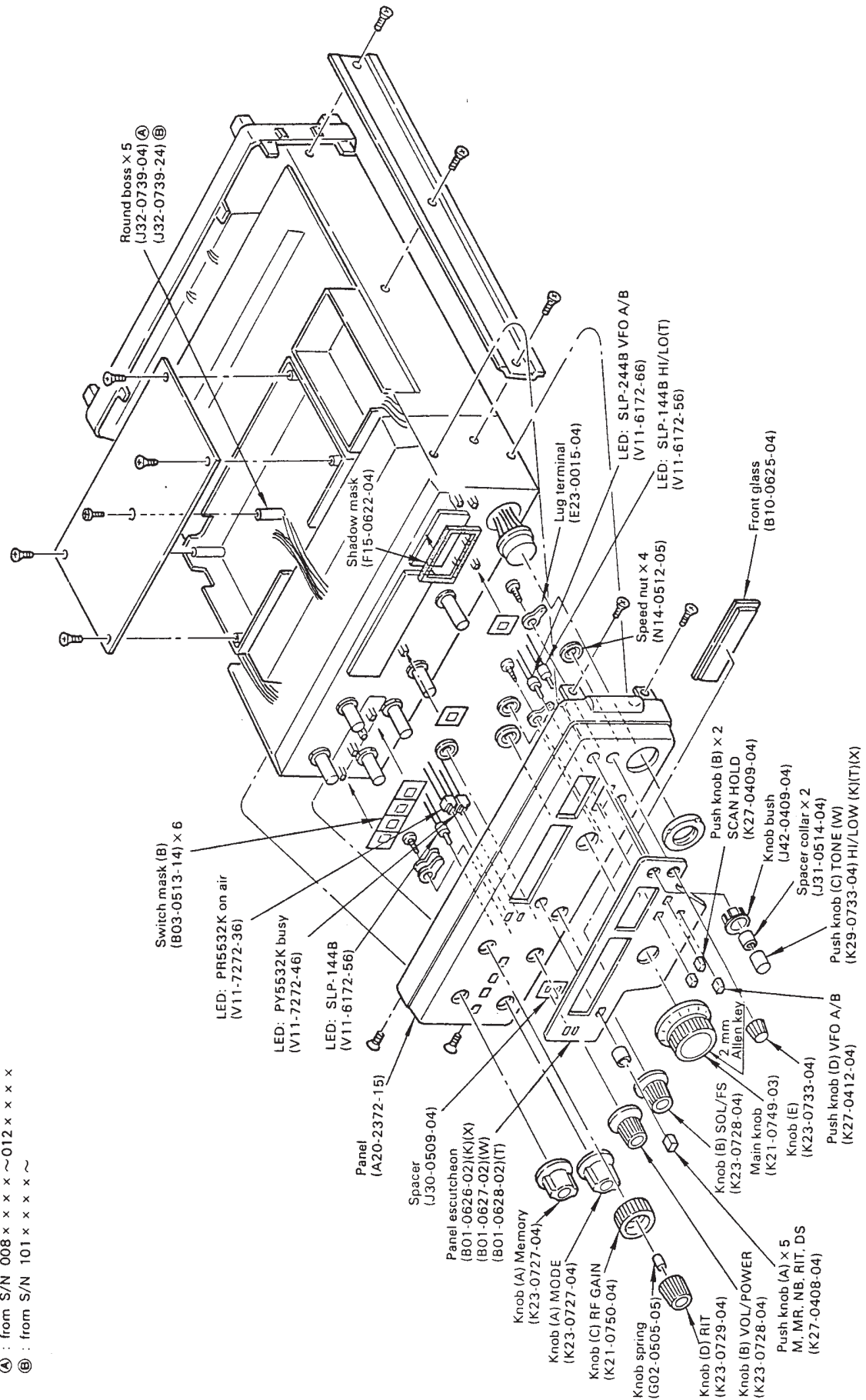


Fig. 13 Front panel disassembly

DISASSEMBLY

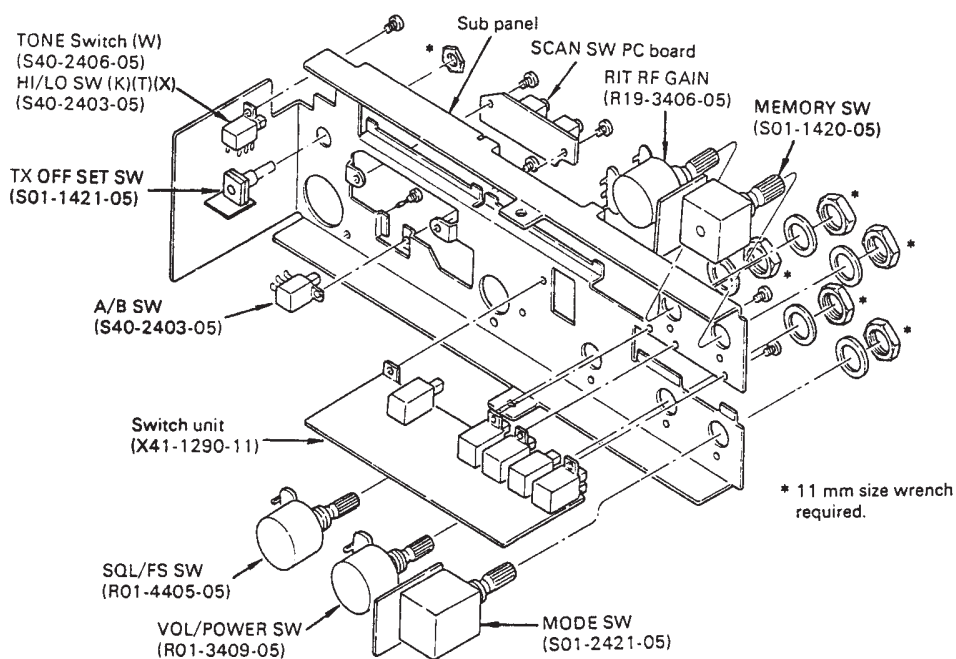


Fig. 14 Sub panel disassembly

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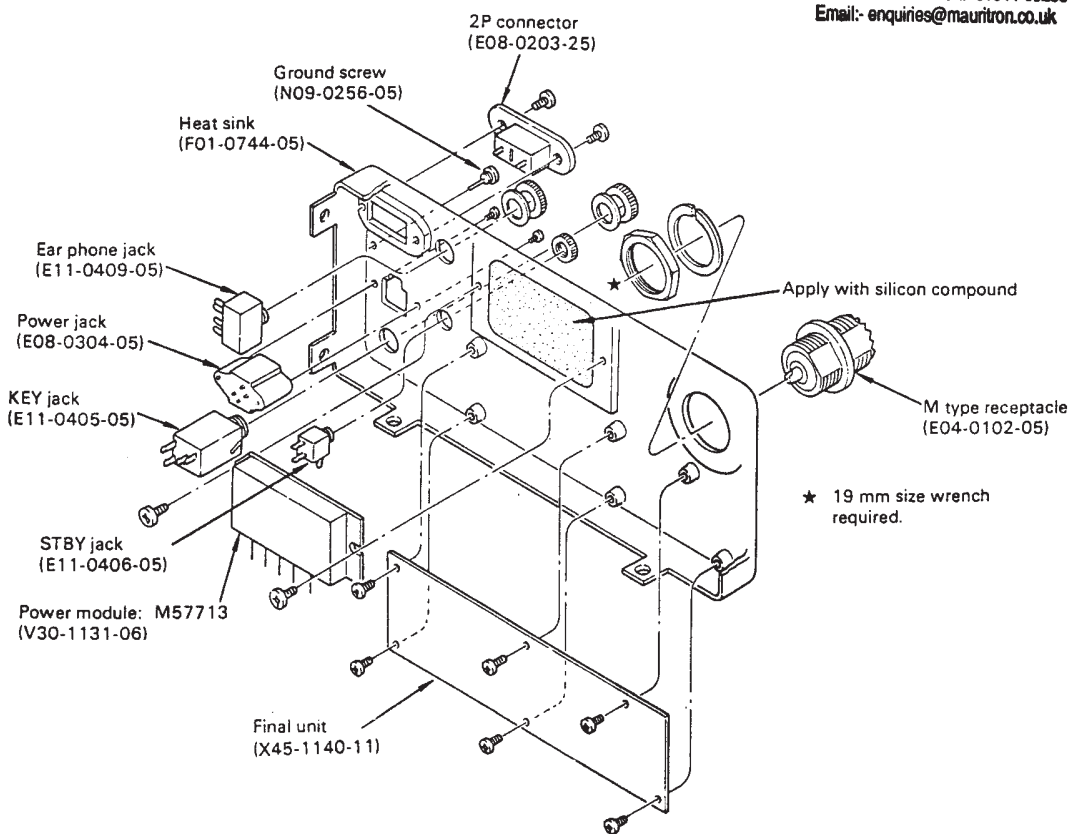


Fig. 15 Heat sink ass'y/disassembly

DISASSEMBLY

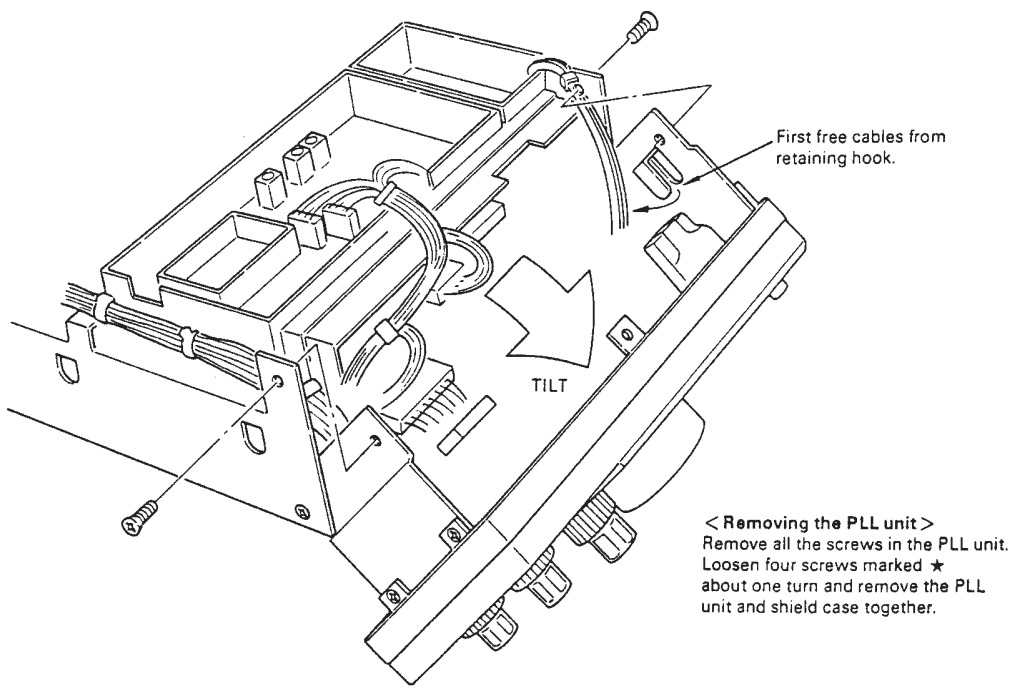


Fig. 16 Inspection of the PLL and switch unit

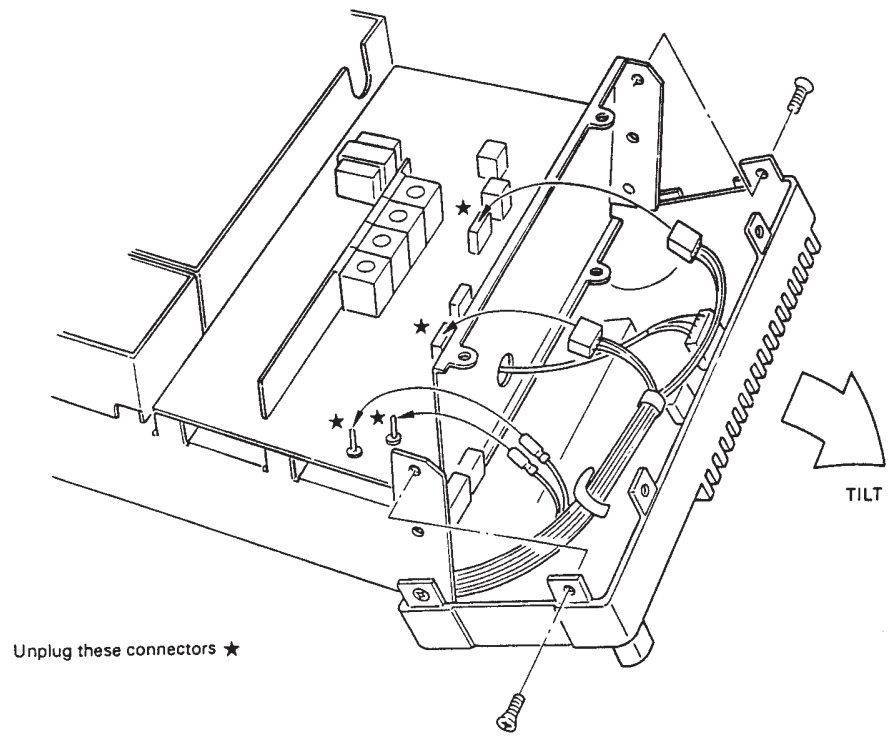
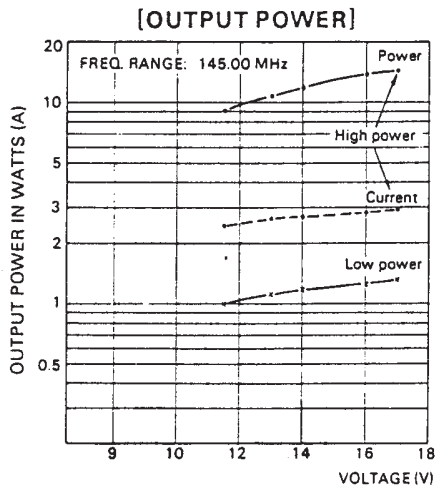
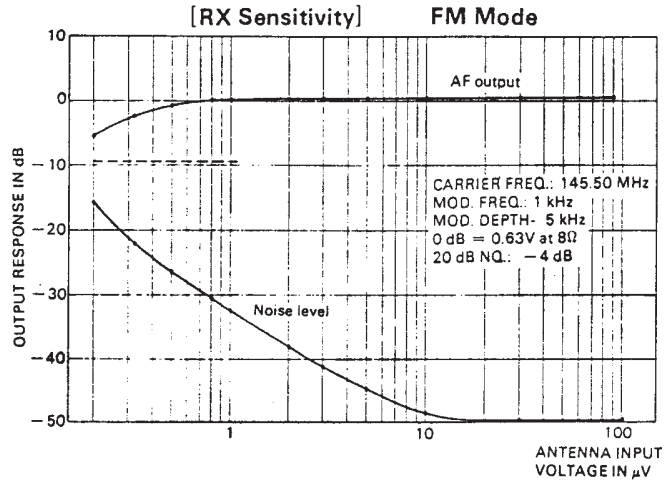
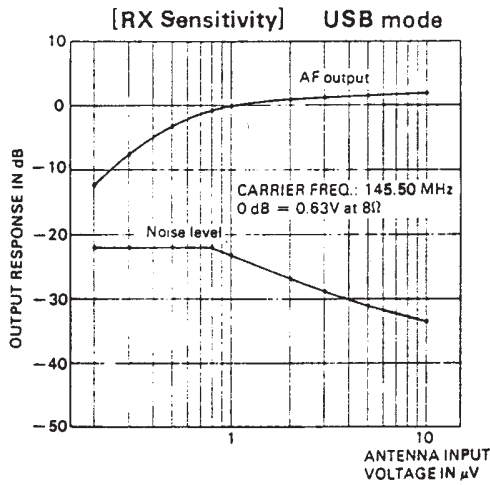
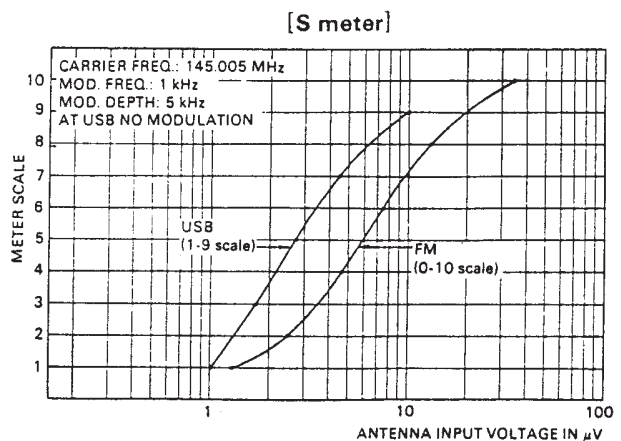
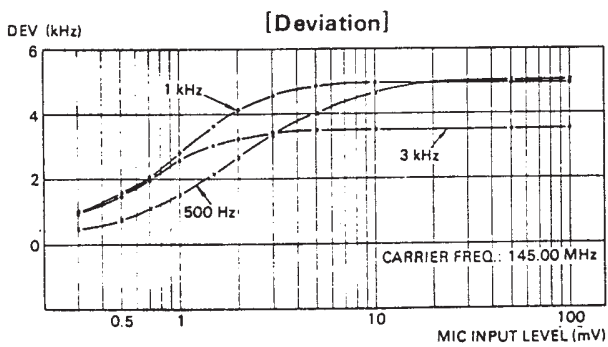
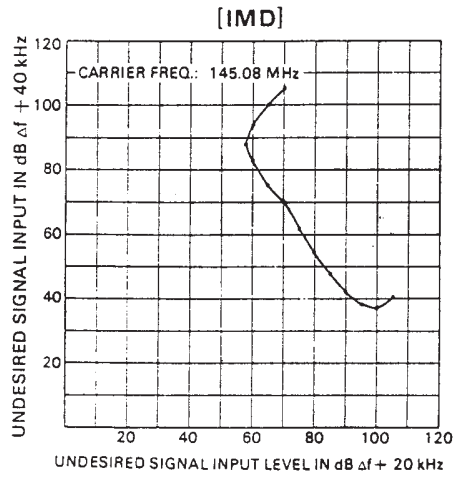


Fig. 17 Heat sink access

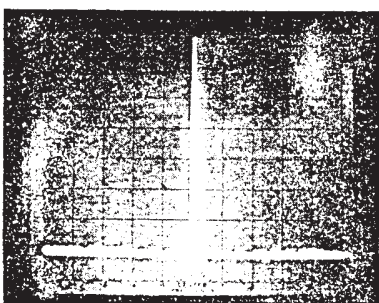
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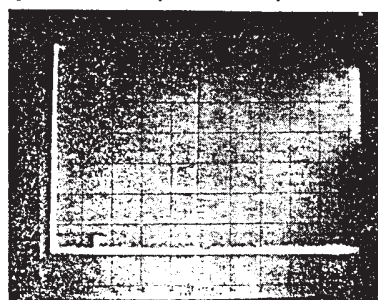


[Near spurious response]



CARRIER FREQ.: 145.02 MHz
RF POWER: 10.5W
SCAN WIDTH: 5 MHz/DIV
BAND WIDTH: 10 kHz
SCAN TIME: 0.5 sec.
VIDEO FILTER: 10 kHz
INPUT ATT.: 20 dB
LOG REF LEVEL: -5 dBm
10 dB/DIV

[Harmonics spurious response]



CARRIER FREQ.: 145.02 MHz
RF POWER: 10.5W
SCAN WIDTH: 100 MHz/DIV
BAND WIDTH: 30 kHz
SCAN TIME: 2 sec.
VIDEO FILTER: 10 kHz
INPUT ATT.: 20 dB
LOG REF LEVEL: -5 dBm
10 dB, DIV

PS-20

PS-20 SPECIFICATIONS

[POWER SUPPLY SECTION]

Input voltage AC 120/220/240V ±10%, 50/60 Hz
 Output voltage DC 13.8V (standard voltage)
 Output current 4.5A (intermittent load 50% duty cycle)
 Continuous load current 4A max.
 Output voltage fluctuation.. Within ±50 mV at AC120/220/240V ±10%
 (at load current 4A)
 Within 0.1V at 0~4A of load current
 (at AC 120/220/240V)
 Ripple voltage Less than 5 mV at 13.8V, 4A
 (at AC 120/220/240V)
 Power consumption Approx. 100W
 (at AC 120/220/240V, DC 13.8V, 4A)

[GENERAL]

Dimensions 123 (4-27/32") W × 96 (3-25/32") H × 235
 (9-17/64") D mm (inch)
 Weight Approx. 3.8 kg (8.4 lbs)

[ACCESSORIES]

Operating manual 1
 DC Power cord 1
 Fuse (1A) 1
 Crimp style terminal 2

NOTE: The circuit and ratings may change without notice due to development in technology.

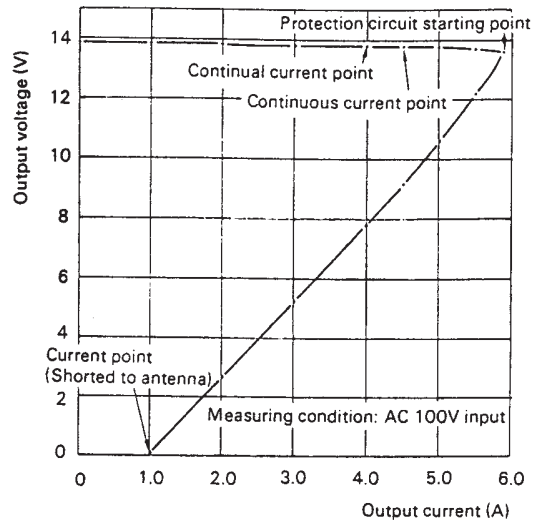


Fig. 19 Output voltage characteristic

PS-20

☆: New Parts

Ref. No.	Parts No.	Description	Re- marks
C1	C90-0808-05	E 15000μF 25V	☆
—	A01-0732-03	Case (A)	☆
—	A01-0733-02	Case (B)	☆
—	A20-2333-03	Panel (T)	☆
—	A20-2336-03	Panel (K)(W)	☆
—	B39-0407-04	Spacer (assistance leg)	
—	B46-0058-00	Warranty card (K)	
—	B50-2616-10	Operating manual (K)(W)	☆
—	B50-2617-10	Operating manual (T)	☆
—	E07-0252-05	2P Metal plug	
—	E20-0282-05	2P Terminal plate	☆
—	E23-0412-05	Crimp style terminal × 2	☆
—	E30-0181-05	AC cord with plug (K)	
—	E30-0585-05	AC cord with plug (W)	
—	E30-0602-05	AC cord with plug (T)	
—	E30-1620-05	DC power cord	☆
—	F05-1023-05	Fuse (1A) × 1 (K) × 2(W)(T)	
—	F05-2023-05	Fuse (2A) × 2(K)	
—	F29-0014-05	Shoulder washer × 4	
—	H01-2592-14	Carton (inside) (K)(W)	☆
—	H01-2593-14	Carton (inside) (T)	☆
—	H10-2513-02	Styren foam cushion (front)	☆
—	H10-2514-02	Styren foam cushion (rear)	☆
—	H12-0460-04	Cushion	☆
—	H20-1407-03	Protective cover	☆
—	H25-0029-04	Accessories bag 60 × 110 mm	
—	H25-0117-04	Accessories bag 80 × 250 mm	
—	J02-0323-05	Foot × 4	
—	J02-0409-04	Foot supporter	☆
—	J21-2573-04	Foot stopper × 2	
—	J32-0133-04	Hex boss × 4	
—	J41-0006-05	Cord bush (K)	
—	J41-0024-15	Cord bush (W)(T)	
—	L01-8056-05	Power trans.	☆

Ref. No.	Parts No.	Description	Re- marks
S1	S36-2402-05	Seesaw switch (power)	
S2	S31-2027-05	Slide switch (AC voltage)	
Q1.2	V04-0525-26	TR 2SD525(O) or (Y)	☆
D1	V11-2164-06	Rectifier stack M4B51-11	☆
—	X43-1350-00	AVR unit	☆

AVR UNIT (X43-1350-00)

Ref. No.	Parts No.	Description	Re- marks
C1.2	C91-0456-05	C 0.047μF 25V	
C3	CE04W1C100	E 10μF 16V	
C4.5	C91-0456-05	C 0.047μF 25V	
C6	CE04W1C222MA	E 2200μF 16V	☆
R14.15	R92-0618-05	Metal film 0.1Ω	☆
VR1	R12-2015-05	Semi-fixed resistor 5kΩ	
VR2	R12-1016-05	Semi-fixed resistor 3kΩ	
Q1	V01-1015-06	TR 2SA1015(Y)	
Q2	V03-1959-06	TR 2SC1959 (Y)	
Q3	V01-0473-06	TR 2SA473(Y)	
Q4.5	V03-1815-06	TR 2SC1815(Y)	
D1	V11-4101-20	Zener diode XZ-060	
D2	V11-4161-76	Zener diode XZ-137	
D3	V11-4101-20	Zener diode XZ-060	
D4		not used	
D5	V11-0297-05	Zener diode WZ-130	
D6	V11-5160-66	LED SEL103R	☆
D7	V11-5160-76	LED SEL303G	☆
—	E23-0047-04	Square terminal × 10	
—	J31-0503-05	Beads × 4	